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Experimental study with light RIB at ACCULINNA-2

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An important upgrade of the Flerov Laboratory of Nuclear Reactions Radioactive Ion Beam facility at JINR is start of the operation of a new high acceptance device called ACCULINNA-2. An overview of the design, construction and commissioning studies of the ACCULINNA-2 separator are presented. The separator will be equipped with a modern cryogenic tritium target cell, with zero degree spectrometer including a neutron detector array, and the TPC detector. This opens a wide range of experimental possibilities. Preliminary results of the experimental study of ${}^6\text{He} + d$ scattering and search for the ${}^7\text{H}$ nucleus are presented. An overview of light radioactive ion beams experimental program is given.

Primary author: Dr KAMINSKI, Grzegorz (FLNR, JINR)

Co-author: ACCULINNA-2 COLLABORATION

Presenter: Dr KAMINSKI, Grzegorz (FLNR, JINR)